



# KALSYS

## PLANT MAINTENANCE

IPP - TEAM

**ACE**  
The right place.

**informa**  
INNOVATIVE FURNISHINGS

**Kawan Lama**  
#1 Commercial & Industrial Supply Company

**KRISBOW**  
The Right Product at The Right Price



**TOYS KINGDOM**  
Creating Smiles

**328** PROPERTY DEVELOPMENT

**odl**  
ONE DAY  
OCEANIA  
INTERIOR

**golden**  
daniel  
Data-Driven solutions for Growth

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**kluk MRO**  
INDONESIA

**Kawan Lama MultiWeidindo pt**  
SPECIALIZED COOPERATION WITH THE AIR QUALITY GROUP

**FBI**  
F1 100% BRAWLER HONORABLE

**pet kingdom**

**GML**

**INDO KOMPRESI PT**



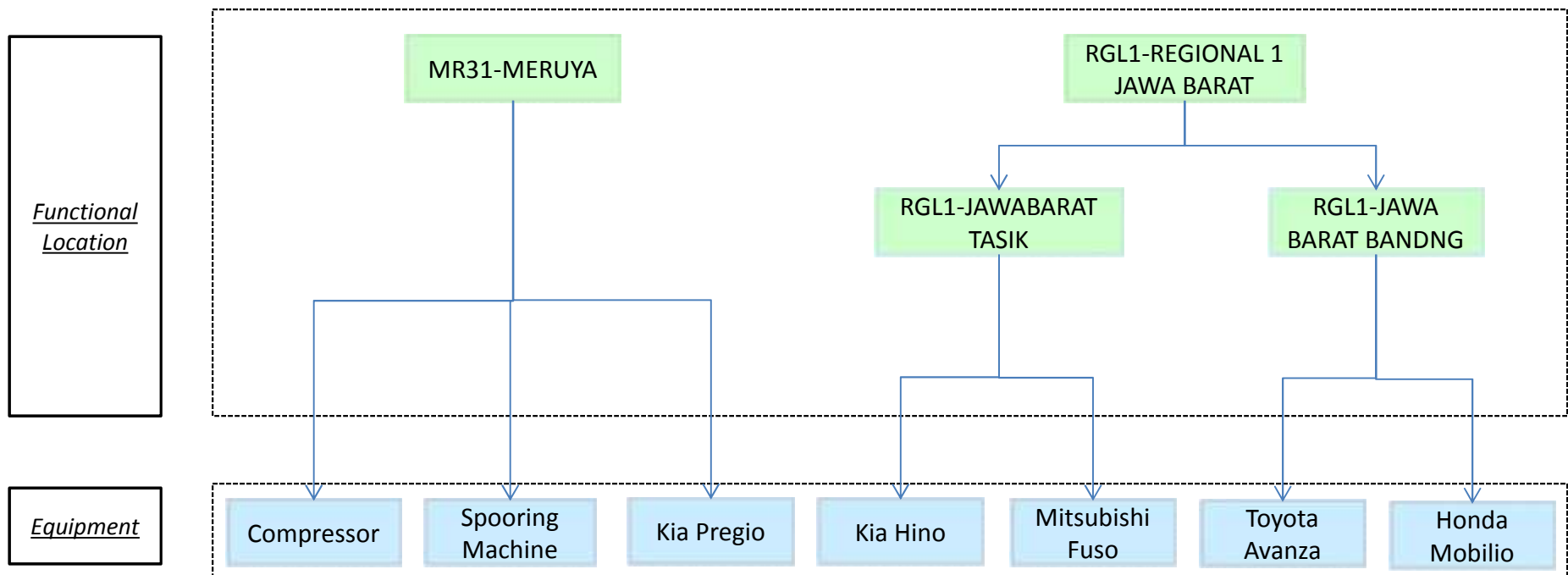
## PM Master Data



# Functional Location

**Functional Location in SAP PM** is an organizational unit in Logistics that structures the maintenance objects of a company according to **functional**, process-oriented, or spatial criteria.

A **functional location** represents the place at which a maintenance task is performed.



Equipment : individual physical object to be maintained as autonomous unit.

Equipment purpose :

For what purpose is a piece of equipment created?



- Management of individual data ✓
- Recording of maintenance tasks ✓
- Object-based recording of costs ✓
- Evaluation of technical data ✓
- Recording of usage times ✓





# Equipment Information

Equipment : Object dari *maintenance* yang dapat di-maintain secara individual

**Display Equipment : General Data**

Equipment: 10000067 Category: F Fleet Object

Description: Mobilio 1500 CC

Status: INST

Valid From: 06.12.2017 Valid To: 31.12.9999

General Location Organization Structure SerData Vehicle ID/Measmnts Vehicle Technology

Classification

Car Capacity: 7seater

Transmisi Mobil: Manual Transmission

Need Driver: NO Driver

Insurance Company:

KIR Number: 123123123YAN

Insurance Type:

KIR Date:

Car Status: Under Lease

Sister company code:

PAM Category: T

General data

Class:

Vehicle Type: 2000000001 Vehicle (Passenger) A

AuthorizGroup:

Weight: 200,000 KG Size/dimension: 2M X 1M

Inventory no.:

Start-up date:

Reference data

AcquistnValue: 0,00 Acquisition date:

Manufacturer data

Manufacturer: HONDA ManufCountry: ID

Model number: XX1 YY1 ZZ1 Constr.yr/mth: 2017 / 0

ManufPartNo.: 123-456-789

ManufSerialNo.: SN-1111

Identification

Vehicle Type: 2000000001 Vehicle (Passenger)

Fleet objectNo.:

License plate: R 5678 YAN ValidityEndDate: 28.11.2020

VIN: NOMOR MESIN EXPANDER

Chassis no.: NOMOR RANCKA EXPANDER



# Equipment

**Display Equipment : Vehicle ID/Measm**

Equipment: 10000067 Category: **F Fleet Object**

Description: Mobilio 1500 CC

Status: INSI

Valid From: 06.12.2017 Valid To: 31.12.9999

General Location Organization Structure SerData **Vehicle ID/Measmts** Vehicle Technology

Identification

Vehicle type: 2000000001 Vehicle (Passenger)

Fleet objectNo.:

License plate: B 1234 YAN ValidityEndDate: 28.11.2020

VIN: NOMOR MESIN

Chassis no.: NOMOR RANGKA

**Display Equipment: Partners**

Equipment: 10000071 Category: **B Customer equipment**

Description: AVANZA ACE 1500 CC

Status: AVLE

Partner Overview

Funct	Partner	Name	A Address
BP Bill-to party	1100008854	PT. HOME CENTER INDONE	PT. HOME CENTER INDONESIA, JAKARTA BARAT, 021-5828282, HOME BIL
SH Ship-to party	1100008854	PT. HOME CENTER INDONE	PT. HOME CENTER INDONESIA, JAKARTA BARAT, 021-5828282, HOME SHIP
SP Sold-to party	1100008854	PT. HOME CENTER INDONE	PT. HOME CENTER INDONESIA, JAKARTA BARAT, 021-5828282, HOME SOL

General Location **Organization** Structure

Account assignment

Company Code: M100 PT Golden Dacron

Business Area:

Asset: 220000000009 / U

Cost Center: D0020099 / KLGC

**Change Documents for Object Class EQUI**

Change Documents

Object value	Doc. no.	User	Date	Time	TCO	Short Description	Old value	New value
000000000010000067	844963	YAN.Y	06.12.2017	18:35:16	IE02	Object ID of the Work Center	10000054	10000060
000000000010000067	844972	YAN.Y	06.12.2017	21:40:18	IE02	License plate number	B 1234 YAN	B 7777 YAN

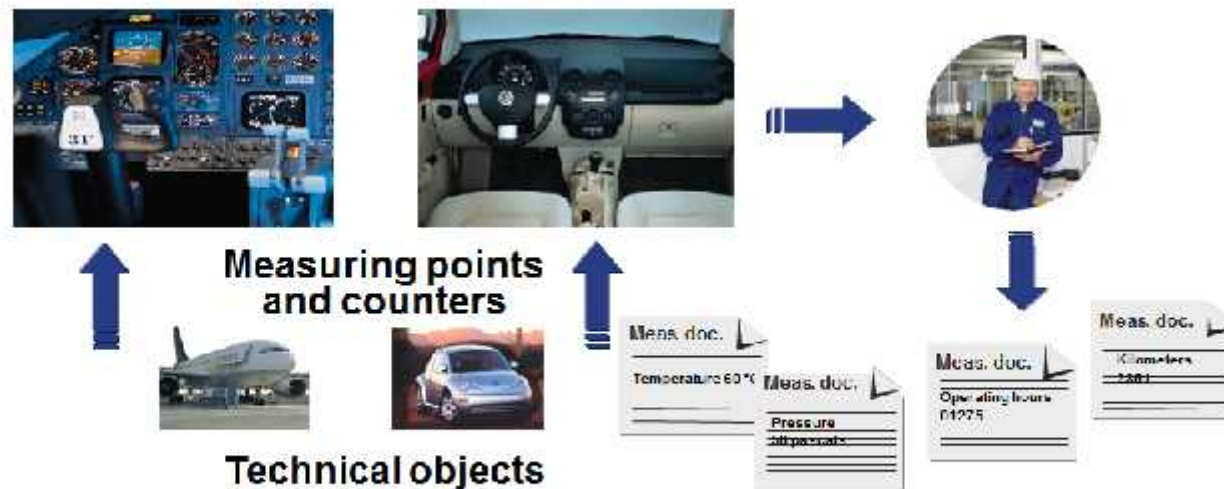




# Measuring Point and Measuring Document

Measuring points are located on technical objects to describe the physical and/or logical locations at which a condition is described.






Example : the number of kilometers vehicle or the temperature of machine



Measuring documents keep information about the counter (measuring point) of an object.



## Create Measuring Point: Initial screen


		 <b>Create Measuring Point: General Data</b>	
MeasPointObject <input type="text" value="IEQ"/> Equipment		Additional Data...  Last Measurement Document...	
Equipment	<input type="text" value="2000000004"/>	Measuring point	<input type="text" value="8"/> Cat. <input type="text" value="M"/> MeasPoint (general)
Description		MeasPosition	<input type="text" value="DISTANCE"/>
MeasPtCategory	<input type="text" value="M"/> MeasPoint (ge	Description	<input type="text" value="NUMBER OF KILOMETERS"/> 
<input checked="" type="checkbox"/> MeasPoint is counter		Equipment	<input type="text" value="2000000004"/>
		Description	<input type="text" value="Honda CRV"/>
General data			
Characteristic	<input type="text" value="DISTANCE"/>	Distance in KM	
CharactUnit	<input type="text" value="km"/> Kilometer		<input checked="" type="checkbox"/> MeasPoint is counter
Decimal places	<input type="text" value="3"/>	FloatPointExp.	<input type="text" value=""/>
Code group	<input type="text" value=""/>		
Assembly	<input type="text" value=""/>		
AuthorizGroup	<input type="text" value=""/>		
MeasReadTransf.	<input type="checkbox"/> Supported	Transfer of	<input type="text" value=""/> 
Counter data			
CntrOverReadg	<input type="text" value="+"/> <input type="text" value=""/> <input type="text" value=""/> km		<input type="checkbox"/> Count backwards
AnnualEstimate	<input type="text" value="50000.000"/>		
Text	<input type="text" value=""/>		







# Measuring Document


The data transferred to the system after a measurement has been taken at a measuring point or a counter is described in the SAP system as a measurement document

 **Display Measurement Document: General Data**


  MeasDocuments    Previous Measurment Document...    Last Measurement Document...

MeasDocument	<input type="text" value="10"/>		
Notification	<input type="text" value="10000017"/>		
Measuring point	<input type="text" value="5"/>	Cat.	<input type="text" value="M"/> MeasPoint (general)
MeasPosition	<input type="text" value="DISTANCE"/>	DISTANCE	
Equipment	<input type="text" value="2000000002"/>		
Description	<input type="text" value="Honda Civic"/>		

Document data

MeasurementTime	<input type="text" value="05.02.2018"/> / <input type="text" value="11:35:00"/>	<input type="checkbox"/> Document after task
Characteristic	<input type="text" value="DISTANCE"/>	Distance in KM
CharactUnit	<input type="text" value="km"/> Kilometer	
Counter reading	<input type="text" value="100.000"/>	
Difference	<input type="text" value="99.000"/>	
TotalChrReading	<input type="text" value="100.000"/>	Last counter
Valuation code	<input type="text" value=""/>	
Text	<input type="text" value="Vehicle Dropoff"/>	 <input type="checkbox"/> Long text

Additional information

Read by	<input type="text" value="YAN.Y"/>
ProcessStatus	



# Checking Last Counter

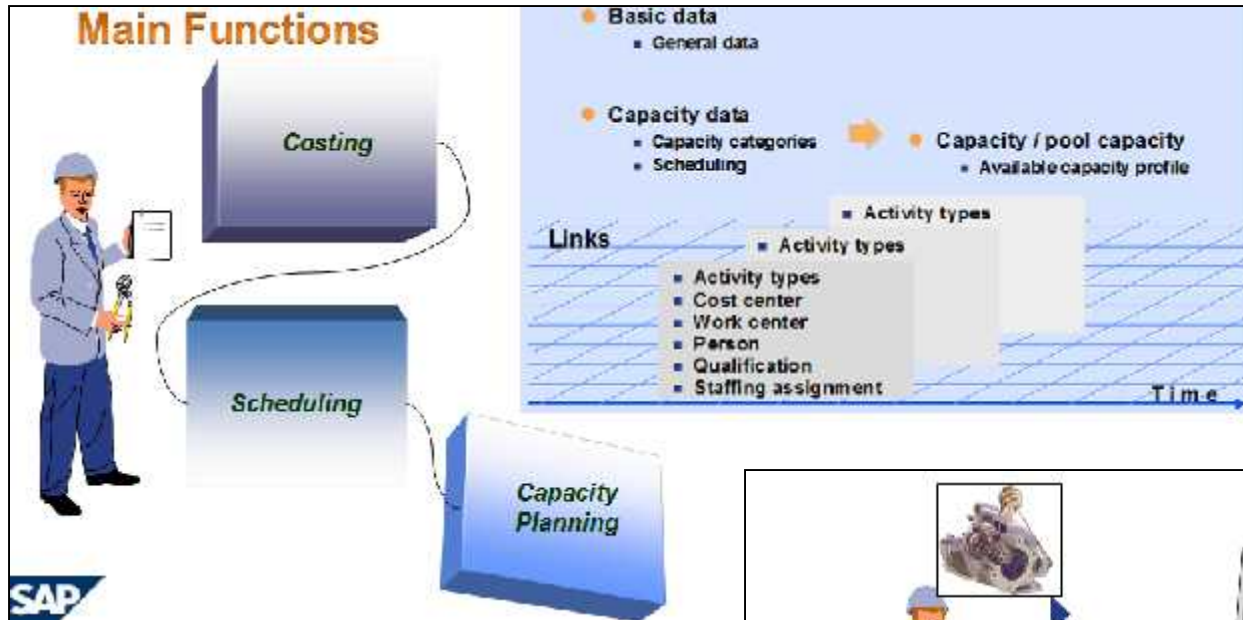
## Display Measurement Documents: Measurement Document List

Measurement Document    Measuring Point   

	S	MeasDoc.	Measuring point	Date	Meas/TotCountrRdg	Unit	Text
		77	42	13.12.2017	12000,000	km	Vehicle Issue
		56	42	06.12.2017	10000,000	km	



# Work Centre and Task List



Work Centre

Ex :

Spooring Balancing

Task List.

Ex : Service 10.000 Km  
0010 Ganti Oli  
0020 Service Machine  
0030 Spooring





## Change Work Center: Cost Center Assignment

Site: MR30 ST MRI JKT MERUYA  
 Work center: MR30LD01 Driver Ali

# Work Centre

Basic Data | Default Values | Capacities | Scheduling | Costing

Validity  
 Start date: 15.01.2018 End Date:

Link to cost center/activity types  
 Controlling Area: KLGC Kawan Lama  
 Cost Center: MR3000000 ST MRI MER

## Change Work Center Capacity: Header

Intervals and Shifts
 Intervals
 Available Capacity Profile
 Reference Available

Site: MR30 ST MRI JKT MERUYA  
 Work center: MR30LD01 Driver Ali  
 Capacity category: 202 kapasitas Ali

General data  
 Capacity planner grp: MR2 Driver MRI  
☐ Pooled capacity Grouping:

Available capacity  
 Logstc calendar ID:   
 Active version:   
 Base unit of meas.: HR Hours

Standard available capacity  
 Start: 08:00:00  
 Finish: 08:00:00 Capacity utilization: 100  
 Length of breaks: 01:00:00 No. of indiv. cap.: 1  
 Operating time: 23.00 Capacity: 23.00

Planning details  
☒ Relevant to finite scheduling Overload:  %  
☒ Can be used by several operations ☒ Long-term planning

### Work Center Information :

- Capacity planner group
- Available capacity
- Cost center
- Activity type
- Scheduling
- Number of capacity
- Shift
- Work center category and description



# Shift



## Display Work Center Capacity: Intervals of Available Capacity



Default Values Only intervals

Site	MR30	ST MRT 1KT MFRIIYA
Work center	MR30LM01	Mechanic Yan
Capacity category	Z02	Kapasitas Yan
Version	1	Normal available capacity

Valid From	to	S	Shif...	L...	W.	W...	Shif...	Start Time	End Time	Length of...	Ca...	N...	Opera...	Capa...
09.04.2018	12.12.9999			7										
					Mo		1	08:00:00	17:00:00	01:00:00	100	1	8,00	8,0
					Tu		1	08:00:00	17:00:00	01:00:00	100	1	8,00	8,0
					We		1	08:00:00	17:00:00	01:00:00	100	1	8,00	8,0
					Th		1	08:00:00	17:00:00	01:00:00	100	1	8,00	8,0
					Fr		2	08:00:00	17:30:00	01:30:00	100	1	8,00	8,0
					Sa		3	08:30:00	14:30:00	01:00:00	100	1	5,00	5,0







# Capacity Requirement Planning

## Capacity Planning: Selection

Standard overview Detailed cap. list Variable overview

Work Center

Capacity Planner Group

Plant

MR2

MR30

## Capacity Planning: Standard Overview

**Driver Capacity**

Cap. details/period

Work center: MR30LD01 Supir (ALi) Site: MR30  
Capacity cat.: Z02 Kapasitas Yan

Week	Requirements	AvailCap.	CapLoad	RemAvailCap	Unit
08.2018	163.95	92.00	178 %	71.95-	H
09.2018	60.00	115.00	52 %	55.00	H
10.2018	60.00	115.00	52 %	55.00	H
11.2018	60.00	115.00	52 %	55.00	H
Total >>>	343.95	437.00	79 %	93.05	H

Work center: MR30LD02 Supir (Bagus) Site: MR30  
Capacity cat.: Z02 Kapasitas

Week	Requirements	AvailCap.	CapLoad	RemAvailCap	Unit
08.2018	161.00	92.00	175 %	69.00-	H
09.2018	115.00	115.00	100 %	0.00	H
10.2018	115.00	115.00	100 %	0.00	H
11.2018	115.00	115.00	100 %	0.00	H
Total >>>	506.00	437.00	116 %	69.00-	H

Work center: MR30LD03 Supir (Alan) Site: MR30  
Capacity cat.: Z02 Kapasitas

We use CRP as :

- Capacity evaluation, available capacity and capacity requirements are determined and compared with each other.







# Capacity Requirement Planning

## Capacity Planning: Selection

Standard overview Detailed cap. list Variable overview

Work Center

[Yellow box]

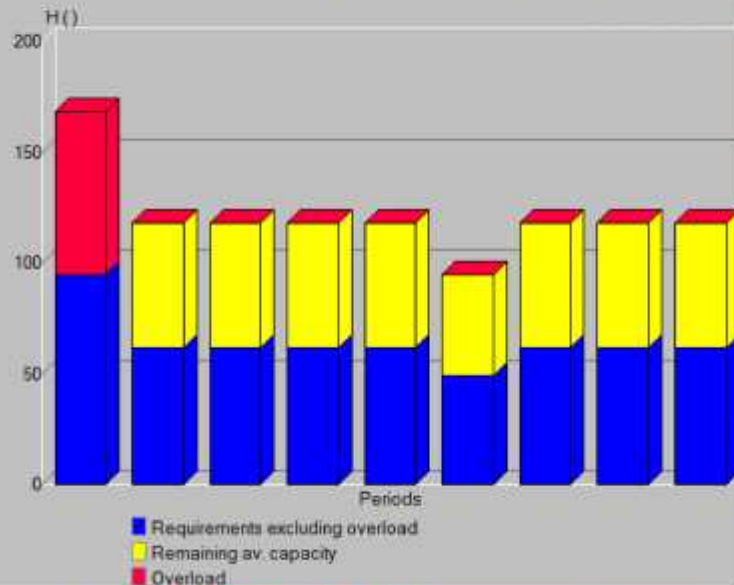
Capacity Planner Group

MR1

Plant

MR30

## Standard overview - MR30LD01/ Z02



## Capacity Planning: Standard Overview

Cap. details/period

**Mechanic Capacity**

Work center MR30LM01 Mechanic Yan Site MR30  
Capacity cat.: Z02 Kapasitas Yan

Week	Requirements	AvailCap.	CapLoad	RemAvailCap	Unit
08.2018	12.00	32.00	38 %	20.00	H
09.2018	0.00	40.00	0 %	40.00	H
10.2018	0.00	40.00	0 %	40.00	H
11.2018	0.00	40.00	0 %	40.00	H
<b>Total &gt;&gt;&gt;</b>	<b>12.00</b>	<b>152.00</b>	<b>8 %</b>	<b>140.00</b>	<b>H</b>

Work center MR30LM02 Mechanic Yohanna Site MR30  
Capacity cat.: Z02 Kapasitas Yohanna

Week	Requirements	AvailCap.	CapLoad	RemAvailCap	Unit
08.2018	6.00	32.00	19 %	26.00	H
09.2018	0.00	40.00	0 %	40.00	H
10.2018	0.00	40.00	0 %	40.00	H
11.2018	0.00	40.00	0 %	40.00	H
<b>Total &gt;&gt;&gt;</b>	<b>6.00</b>	<b>152.00</b>	<b>4 %</b>	<b>146.00</b>	<b>H</b>

Work center MR30LE01 Service Berkala Site MR30  
Capacity cat.: Z02 Service berkala





# PM Activity Type

**Change Maintenance order (Internal Service) 102100008:**

Complete (business)

Order ZPM2 102100008 Service Internal Agya (Ganti Kampas Rem)

Sys.Status REL PCNF MACM PRC

HeaderData Operations Component

Person responsible

PlannerGrp / MR30

Mn.wk.ctr MR30LM01 / MR30

Maintenance activity type (1) 3 Entries found

Restrictions

M... MAT Descript...

Z01	Massive Service
Z02	Medium Service
Z03	Small Service







# PM – Activity Reporting

## Display PM orders: Selection of Orders

   Settlement Receivers PRT

Location Data/Acc.Assignment

Maintenance site

201

to




to

203

MaintActivityType

## Display PM orders: List of Orders

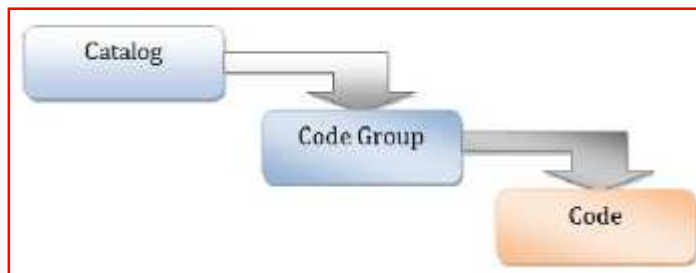
         

	S	Order	Type	Bas. start date	Description	MAT
		102100009	ZPM2	09.02.2018	Perbaikan Mobil Mobilio B 1234	Z02
		103100017	ZPM3	09.02.2018	Ganti kampas rem	Z01

Retrieve order by service category. Massive, medium, small service.







## Catalog functions:

1. Reporting and analyst damage and failure.
2. Statistic about equipment failures or breakdown
3. Identify trends and problems
4. Equipment behavior pattern

Catalog Selection	
▼ Damage	Overview of damage
▼ ZPM1	Machine Problems
• ► 1	Machine mati
• ► 2	Machine kotor

## To:

1. Improve failure response
2. Improve work practices
3. Making decisions





THANK YOU



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